



Application Number

IDS Flag Clearance for Application

IDS Information

Content	Mailroom Date	Entry Number	IDS Review	Reviewer
M844	05-31-2005	27	<input checked="" type="checkbox"/>	06-07-2005 09:48:35 mrichards

# WEST Search History

[Hide Items](#) [Restore](#) [Clear](#) [Cancel](#)

DATE: Tuesday, February 28, 2006

Hide?	<u>Set</u> <u>Name</u> <u>Query</u>	<i>Updated Search for Spec:5 /</i>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L52	I51 and (((true or actual or real or genuine) with (heavy) with (oil or lipid or (hydrogeneous with connate with fluid))) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4 or di-electric\$4))	1
<input type="checkbox"/>	L51	((true or actual or real or genuine) with (heavy) with (oil or lipid or (hydrogeneous with connate with fluid)))	398
<input type="checkbox"/>	L50	((true or actual or real) with (heavy) with (oil or lipid or (hydrogeneous with connate with fluid)))	397
<input type="checkbox"/>	L49	I48 and (((bulk or total or overall or over-all or "over all") with (density)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4 or di-electric\$4))	2
<input type="checkbox"/>	L48	I46 and ((bulk or total or overall or over-all or "over all") with (density))	114071
<input type="checkbox"/>	L47	I43 and ((bulk or total or overall or over-all or "over all") with (density))	39933
<input type="checkbox"/>	L46	(bulk or total or overall or over-all or "over all")	3133532
<input type="checkbox"/>	L45	I44 and (((bulk or total or overall or over-all or "over all") with (density)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	0
<input type="checkbox"/>	L44	I43 and ((bulk or total or overall or over-all or "over all") with (density))	19284
<input type="checkbox"/>	L43	L42 and (density)	266645
<input type="checkbox"/>	L42	(bulk or total or overall or over-all or "over all")	1230864
<input type="checkbox"/>	L41	L8 and (((oil or lipid or (hydrogeneous with connate with fluid)) with (fraction\$4 or portion or part\$2 or partial\$2 or content of amount\$3)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	2
<input type="checkbox"/>	L40	L27 and (((oil or lipid or (hydrogeneous with connate with fluid)) with (fraction\$4 or portion or part\$2 or partial\$2 or content of amount\$3)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	1
<input type="checkbox"/>	L39	L28 and (((oil or lipid or (hydrogeneous with connate with fluid)) with (fraction\$4 or portion or part\$2 or partial\$2 or content of amount\$3)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	1
<input type="checkbox"/>	L38	L29 and (((oil or lipid or (hydrogeneous with connate with fluid)) with (fraction\$4 or portion or part\$2 or partial\$2 or content of amount\$3)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	1
<input type="checkbox"/>	L37	L30 and (((oil or lipid or (hydrogeneous with connate with fluid)) with (fraction\$4 or portion or part\$2 or partial\$2 or content of amount\$3)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	1
<input type="checkbox"/>	L36	L34 and (((oil or lipid or (hydrogeneous with connate with fluid)) with (fraction\$4 or portion or part\$2 or partial\$2 or content of amount\$3)) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	1
		L34 and ((oil or lipid or (hydrogeneous with connate with fluid)) with	

<input type="checkbox"/>	L35	((fraction\$4 or portion or part\$2 or partial\$2 or content or amount\$3))	2
<input type="checkbox"/>	L29	and ((rock or matrix or formation or earth or wellbore or well-bore or	
<input type="checkbox"/>	L34	"well bore" or borehole or bore-hole or "bore hole") with (mri or nmr or	5
		(magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L30	and ((rock or matrix or formation or earth or wellbore or well-bore or	
<input type="checkbox"/>	L33	"well bore" or borehole or bore-hole or "bore hole") with (mri or nmr or	1
		(magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L31	and ((rock or matrix or formation or earth or wellbore or well-bore or	
<input type="checkbox"/>	L32	"well bore" or borehole or bore-hole or "bore hole") with (mri or nmr or	1
		(magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L30	and ((combin\$4 or combination\$4 or add\$3 or sum\$4 or summation or	2
		addition) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L29	L29 and ((fraction\$4 or portion or part\$2 or partial\$2) with (mri or nmr or	17
		(magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L28	L28 and (dielectric\$4 with (constant or perme\$4 or permeability or	753
		permittivity))	
<input type="checkbox"/>	L28	L27 and (dielectric\$4 or di-electric\$4)	1518
<input type="checkbox"/>	L27	324/300-378.ccls.	15038
<input type="checkbox"/>	L26	L25 and ((fraction\$4 or portion or part\$2 or partial\$2) with (mri or nmr or	1
		(magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L25	L24 and ((rock or matrix) with (travel or time))	4
<input type="checkbox"/>	L24	L23 and (dielectric\$4 with (constant or perme\$4 or permeability or	9
		permittivity))	
<input type="checkbox"/>	L23	L22 and ((combin\$4 or combination\$4 or add\$3 or sum\$4 or summation or	9
		addition) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L22	L8 and ((rock or matrix or formation or earth or wellbore or well-bore or "well	
		bore" or borehole or bore-hole or "bore hole") with (mri or nmr or (magnetic	33
		adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L21	L17 and ((rock or matrix or formation or earth or wellbore or well-bore or	
		"well bore" or borehole or bore-hole or "bore hole") with (mri or nmr or	1
		(magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L20	L17 and (rock or matrix)	1
<input type="checkbox"/>	L19	L17 and ((rock or matrix) with (combin\$4 or combination\$4 or add\$3 or	0
		sum\$4 or summation or addition) with (mri or nmr or (magnetic adj	
		resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L18	L17 and ((rock or matrix or formation or earth or wellbore or well-bore or	0
		"well bore" or borehole or bore-hole or "bore hole") with (combin\$4 or	
		combination\$4 or add\$3 or sum\$4 or summation or addition) with (mri or nmr	
		or (magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L17	L9 and ((combin\$4 or combination\$4 or add\$3 or sum\$4 or summation or	4
		addition) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L16	L11 and ((combin\$4 or combination\$4 or add\$3 or sum\$4 or summation or	1
		addition) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	
<input type="checkbox"/>	L15	L14 and ((combin\$4 or combination\$4 or add\$3 or sum\$4 or summation or	1
		addition) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	

<input type="checkbox"/>	L14	L13 and (combin\$4 or combination\$4 or add\$3 or sum\$4 or summation or addition)	5
<input type="checkbox"/>	L13	L11 and (dielectric\$4 with constant)	5
<input type="checkbox"/>	L12	L11 and (perme\$4 or permeability or permittivity)	0
<input type="checkbox"/>	L11	L10 and (formation or earth or wellbore or well-bore or "well bore" or borehole or bore-hole or "bore hole")	13
<input type="checkbox"/>	L10	L9 and (measur\$4 or measurement)	36
<input type="checkbox"/>	L9	L8 and ((fraction\$4 or portion or part\$2 or partial\$2) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	62
<input type="checkbox"/>	L8	(dielectric\$4)	556264
<input type="checkbox"/>	L7	L5 and ((fraction\$4 or portion or part\$2 or partial\$2) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	3
<input type="checkbox"/>	L6	L3 and ((fraction\$4 or portion or part\$2 or partial\$2) with (mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	3
<input type="checkbox"/>	L5	L3 and ((mri or nmr or (magnetic adj resonan\$2)) with (dielectric\$4))	43
<input type="checkbox"/>	L4	L3 and (mri or nmr or (magnetic adj resonan\$2))	483
<input type="checkbox"/>	L3	L2 and (fraction\$4 or portion or part\$4)	10922
<input type="checkbox"/>	L2	L1 and (dielectric\$4)	14252
<input type="checkbox"/>	L1	permittivity	21289

END OF SEARCH HISTORY

## Hit List

---

[First Hit](#)
[Clear](#)
[Generate Collection](#)
[Print](#)
[Fwd Refs](#)
[Bkwd Refs](#)
[Generate OACS](#)

### Search Results - Record(s) 1 through 1 of 1 returned.

---

1. Document ID: US 20040032257 A1

**Using default format because multiple data bases are involved.**

L16: Entry 1 of 1

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Create Q](#)

[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Term	Documents
SUMMATION	65435
SUMMATIONS	4401
ADDITION	3767890
ADDN	133093
ADDNS	2104
ADDITIONS	195476
MRI	32191
MRIS	482
NMR	159614
NMRS	276
MAGNETIC	1592478

(L11 AND ((COMBIN\$4 OR COMBINATION\$4 OR ADD\$3 OR SUM\$4 OR SUMMATION OR ADDITION) WITH (MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH (DIELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

1

There are more results than shown above. Click here to view the entire set.

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

## Hit List

---

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

---

Search Results - Record(s) 1 through 17 of 17 returned.

---

1. Document ID: US 20050110493 A1

Using default format because multiple data bases are involved.

L30: Entry 1 of 17

File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050110493

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050110493 A1

TITLE: Local coil unit for a magnetic resonance apparatus

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Feiweier, Thorsten	Poxdorf		DE
Lazar, Razvan	Erlangen		DE
Renz, Wolfgang	Erlangen		DE
Schon, Lothar	Neunkirchen		DE

US-CL-CURRENT: 324/318

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [IPC](#) [Drawings](#)

---

2. Document ID: US 20040046557 A1

L30: Entry 2 of 17

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040046557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040046557 A1

TITLE: Magnetic resonance probes

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Karmarkar, Parag	Columbia	MD	US
Viohl, Ingmar	Milwaukee	WI	US

US-CL-CURRENT: 324/322; 324/318

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [DAMC](#) [Drawings](#)

3. Document ID: US 20040032257 A1

L30: Entry 3 of 17

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [DAMC](#) [Drawings](#)

4. Document ID: US 20040021467 A1

L30: Entry 4 of 17

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040021467

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040021467 A1

TITLE: Magnetic resonance tomography apparatus with vacuum cast or vacuum die cast body coil

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Eberler, Ludwig	Postbauer-Heng		DE
Eberler, Michael	Postbauer-Heng		DE
Kolbeck, Thomas	Kalchreuth		DE

US-CL-CURRENT: 324/318; 324/322

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [DAMC](#) [Drawings](#)

5. Document ID: US 20030048103 A1

L30: Entry 5 of 17

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030048103  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030048103 A1

TITLE: Distributed capacitance inserts for NMR probes

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Haner, Ronald L.	Palo Alto	CA	US

US-CL-CURRENT: 324/322; 324/318

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [Kill](#) | [Draw](#) | [D](#)

6. Document ID: US 7002347 B2

L30: Entry 6 of 17

File: USPT

Feb 21, 2006

US-PAT-NO: 7002347

DOCUMENT-IDENTIFIER: US 7002347 B2

TITLE: Local coil unit for a magnetic resonance apparatus

DATE-ISSUED: February 21, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050110493 A1	May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feiweiier; Thorsten	Poxdorf			DE
Lazar; Razvan	Erlangen			DE
Renz; Wolfgang	Erlangen			DE
Schon; Lothar	Neunkirchen			DE

US-CL-CURRENT: 324/318; 600/421

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [Kill](#) | [Draw](#) | [D](#)

7. Document ID: US 6904307 B2

L30: Entry 7 of 17

File: USPT

Jun 7, 2005

US-PAT-NO: 6904307

DOCUMENT-IDENTIFIER: US 6904307 B2

TITLE: Magnetic resonance probes

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Karmarkar; Parag	Columbia	MD		
Viohl; Ingmar	Milwaukee	WI		

US-CL-CURRENT: 600/423; 324/318

[Full](#) [Title](#) [Citation](#) [Front](#) [Revert](#) [Classification](#) [Date](#) [References](#) [Claims](#) [Diffs](#) [Dscrptn](#)

8. Document ID: US 6825665 B2

L30: Entry 8 of 17

File: USPT

Nov 30, 2004

US-PAT-NO: 6825665

DOCUMENT-IDENTIFIER: US 6825665 B2

TITLE: Magnetic resonance tomography apparatus with vacuum cast or vacuum die cast body coil

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eberler; Ludwig	Postbauer-Heng			DE
Eberler; Michael	Postbauer-Heng			DE
Kolbeck; Thomas	Kalchreuth			DE

US-CL-CURRENT: 324/318; 324/322

[Full](#) [Title](#) [Citation](#) [Front](#) [Revert](#) [Classification](#) [Date](#) [References](#) [Claims](#) [Diffs](#) [Dscrptn](#)

9. Document ID: US 6674285 B2

L30: Entry 9 of 17

File: USPT

Jan 6, 2004

US-PAT-NO: 6674285

DOCUMENT-IDENTIFIER: US 6674285 B2

TITLE: Distributed capacitance inserts for NMR probes

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haner; Ronald L.	Palo Alto	CA	94303	

US-CL-CURRENT: 324/318; 324/309, 324/322[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [DWC](#) [DPA](#) 10. Document ID: US 6606513 B2

L30: Entry 10 of 17

File: USPT

Aug 12, 2003

US-PAT-NO: 6606513

DOCUMENT-IDENTIFIER: US 6606513 B2

TITLE: Magnetic resonance imaging transseptal needle antenna

DATE-ISSUED: August 12, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lardo; Albert C.	Baldwin	MD		
McVeigh; Elliott R.	Potomac	MD		
Halperin; Henry R.	Baltimore	MD		

US-CL-CURRENT: 600/411; 324/318, 600/423, 600/424[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [DWC](#) [DPA](#) 11. Document ID: US 6498487 B1

L30: Entry 11 of 17

File: USPT

Dec 24, 2002

US-PAT-NO: 6498487

DOCUMENT-IDENTIFIER: US 6498487 B1

TITLE: Distributed capacitance inserts for NMR probes

DATE-ISSUED: December 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haner; Ronald L.	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/309, 324/322[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [DWC](#) [DPA](#) 12. Document ID: US 5744957 A

L30: Entry 12 of 17

File: USPT

Apr 28, 1998

US-PAT-NO: 5744957

DOCUMENT-IDENTIFIER: US 5744957 A  
\*\* See image for Certificate of Correction \*\*

TITLE: Cavity resonator for NMR systems

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vaughan, Jr.; John Thomas	Lynnfield	MA		

US-CL-CURRENT: 324/318

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KUDOC](#) [Drawings](#)

---

13. Document ID: US 5742165 A

L30: Entry 13 of 17

File: USPT

Apr 21, 1998

US-PAT-NO: 5742165

DOCUMENT-IDENTIFIER: US 5742165 A

TITLE: Magnetic resonance apparatus

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snelten; Jeroen	Eindhoven			NL
Wardenier; Peter H.	Eindhoven			NL

US-CL-CURRENT: 324/318; 324/322

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KUDOC](#) [Drawings](#)

---

14. Document ID: US 5738632 A

L30: Entry 14 of 17

File: USPT

Apr 14, 1998

US-PAT-NO: 5738632

DOCUMENT-IDENTIFIER: US 5738632 A

TITLE: Device for use in combination with a magnetic resonance imaging apparatus

DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Karasawa; Masaru	Hachioji			JP

US-CL-CURRENT: 600/410; 324/318, 600/435[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KINIC](#) [Drawn](#) 15. Document ID: US 5293519 A

L30: Entry 15 of 17

File: USPT

Mar 8, 1994

US-PAT-NO: 5293519

DOCUMENT-IDENTIFIER: US 5293519 A

TITLE: RF coil for a nuclear magnetic resonance imaging device

DATE-ISSUED: March 8, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshino; Hitoshi	Kashiwa			JP
Takeuchi; Hiroyuki	Kashiwa			JP

US-CL-CURRENT: 324/318; 324/322[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KINIC](#) [Drawn](#) 16. Document ID: US 5191289 A

L30: Entry 16 of 17

File: USPT

Mar 2, 1993

US-PAT-NO: 5191289

DOCUMENT-IDENTIFIER: US 5191289 A

TITLE: RF-coil for MRI apparatus

DATE-ISSUED: March 2, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayakawa; Hiroshi	Ootawara			JP
Aratani; Toru	Yokohama			JP

US-CL-CURRENT: 324/318; 324/322[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KINIC](#) [Drawn](#) 17. Document ID: US 5049821 A

L30: Entry 17 of 17

File: USPT

Sep 17, 1991

US-PAT-NO: 5049821

DOCUMENT-IDENTIFIER: US 5049821 A  
 \*\* See image for Certificate of Correction \*\*

TITLE: Continuously variable field of view surface coil for NMR imaging

DATE-ISSUED: September 17, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Duensing; George R.	Gainesville	FL		
Fitzsimmons; Jeffrey R.	Gainesville	FL		
Sanford; Don	Hawthorne	FL		

US-CL-CURRENT: 324/322; 324/318, 335/219

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Document](#) [Claims](#) [KIND](#) [Drawn](#) [D](#)

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
PORTION	5997279
PORTIONS	3168488
MRI	32191
MRIS	482
NMR	159614
NMRS	276
MAGNETIC	1592478
MAGNETICS	14269
FRACTION\$4	0
FRACTION	584712
FRACTIONA	2367
(L29 AND ((FRACTION\$4 OR PORTION OR PART\$2 OR PARTIAL\$2) WITH (MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH (DIELECTRIC\$4)) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	17

There are more results than shown above. Click here to view the entire set.

Display Format: [\[ \]](#) [Change Format](#)

[Previous Page](#) [Next Page](#) [Go to Doc#](#)

## Hit List

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

### Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20040032257 A1

Using default format because multiple data bases are involved.

L31: Entry 1 of 2

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KUD](#) [Drawn D](#)

2. Document ID: US 5293519 A

L31: Entry 2 of 2

File: USPT

Mar 8, 1994

US-PAT-NO: 5293519

DOCUMENT-IDENTIFIER: US 5293519 A

TITLE: RF coil for a nuclear magnetic resonance imaging device

DATE-ISSUED: March 8, 1994

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshino; Hitoshi	Kashiwa			JP
Takeuchi; Hiroyuki	Kashiwa			JP

US-CL-CURRENT: 324/318; 324/322

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KUD](#) [Drawn D](#)

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Term	Documents
SUMMATION	65435
SUMMATIONS	4401
ADDITION	3767890
ADDN	133093
ADDNS	2104
ADDITIONS	195476
MRI	32191
MRIS	482
NMR	159614
NMRS	276
MAGNETIC	1592478
(L30 AND ((COMBIN\$4 OR COMBINATION\$4 OR ADD\$3 OR SUM\$4 OR SUMMATION OR ADDITION) WITH (MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH (DIELECTRIC\$4)) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

[There are more results than shown above. Click here to view the entire set.](#)

[Display Format:](#)[Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Hit List

---

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

**Search Results - Record(s) 1 through 1 of 1 returned.**

1. Document ID: US 20040032257 A1

**Using default format because multiple data bases are involved.**

L33: Entry 1 of 1

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [IWC](#) [Draw](#) [PCT](#)

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
ROCK	273706
ROCKS	68686
MATRIX	712962
MATRICES	94666
MATRIXES	10888
FORMATION	1990543
FORMATIONS	105967
EARTH	634044
EARTHS	21245
WELLBORE	19808
WELLBORES	4880

(L30 AND ((ROCK OR MATRIX OR FORMATION OR EARTH OR  
WELLBORE OR WELL-BORE OR "WELL BORE" OR BOREHOLE OR  
BORE-HOLE OR "BORE HOLE") WITH (MRI OR NMR OR  
(MAGNETIC ADJ RESONAN\$2)) WITH  
(DIELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

1

There are more results than shown above. Click here to view the entire set.

Display Format:



Change Format

Previous Page

Next Page

Go to Doc#

## Hit List

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate GACS](#)

Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 20050257610 A1

Using default format because multiple data bases are involved.

L34: Entry 1 of 5

File: PGPB

Nov 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050257610

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050257610 A1

TITLE: Automatic adjustment of NMR pulse sequence to optimize SNR based on real time analysis

PUBLICATION-DATE: November 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gillen, Mike	The Woodlands	TX	US
Engels, Ole G.	Abu Dhabi	TX	AE
Gilchrist, W. Allen	Houston	TX	US
Trcka, Darryl E.	Houston	TX	US
Kruspe, Thomas	Wienhausen		DE
Chen, Songhua	Katy		US

US-CL-CURRENT: 73/152.02; 324/303, 702/6

[Detail](#) [Title](#) [Invention](#) [Front](#) [Recent](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [Law](#) [Cross-Ref](#)

2. Document ID: US 20040032257 A1

L34: Entry 2 of 5

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
------	------	-------	---------

Freedman, Robert

Houston

TX

US

US-CL-CURRENT: 324/303[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#) 3. Document ID: US 20030034777 A1

L34: Entry 3 of 5

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030034777

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030034777 A1

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

PUBLICATION-DATE: February 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen, Songhua	Katy	TX	US
Georgi, Daniel T.	Houston	TX	US

US-CL-CURRENT: 324/303; 702/6[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#) 4. Document ID: US 20020062992 A1

L34: Entry 4 of 5

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020062992

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020062992 A1

TITLE: Rib-mounted logging-while-drilling (LWD) sensors

PUBLICATION-DATE: May 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fredericks, Paul	Kingwood	TX	US
MacCallum, Donald	Woodlands	TX	US

US-CL-CURRENT: 175/40; 324/356, 324/369[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

5. Document ID: US 4461997 A

L34: Entry 5 of 5

File: USPT

Jul 24, 1984

US-PAT-NO: 4461997

DOCUMENT-IDENTIFIER: US 4461997 A

TITLE: Non-conductive logging sonde housing

DATE-ISSUED: July 24, 1984

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohmer; Herve	Antony			FR

US-CL-CURRENT: 324/338; 174/52.3, 324/323, 73/152.02[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Documents](#) [Claims](#) [KIND](#) [Print](#) [D](#)[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
ROCK	273706
ROCKS	68686
MATRIX	712962
MATRICES	94666
MATRIXES	10888
FORMATION	1990543
FORMATIONS	105967
EARTH	634044
EARTHS	21245
WELLBORE	19808
WELLBORES	4880
(L29 AND ((ROCK OR MATRIX OR FORMATION OR EARTH OR WELLBORE OR WELL-BORE OR "WELL BORE" OR BOREHOLE OR BORE-HOLE OR "BORE HOLE") WITH (MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH (DIELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

There are more results than shown above. Click here to view the entire set.

[Display Format:](#)[Change Format](#)

## Hit List

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

### Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20040032257 A1

**Using default format because multiple data bases are involved.**

L35: Entry 1 of 2

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

2. Document ID: US 20030034777 A1

L35: Entry 2 of 2

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030034777

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030034777 A1

TITLE: In-situ heavy-oil reservoir evaluation with artificial temperature elevation

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen, Songhua	Katy	TX	US
Georgi, Daniel T.	Houston	TX	US

US-CL-CURRENT: 324/303; 702/6

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawn D](#)

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
OIL	1854487
OILS	366664
LIPID	105005
LIPIDS	66636
HYDROGENEOUS	85
HYDROGENEOU	0
CONNATE	2253
CONNATES	8
FLUID	1851953
FLUIDS	406979
PORTION	5997279
(L34 AND ((OIL OR LIPID OR (HYDROGENEOUS WITH CONNATE WITH FLUID)) WITH (FRACTION\$4 OR PORTION OR PART\$2 OR PARTIAL\$2 OR CONTENT OT AMOUNT\$3)) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

There are more results than shown above. [Click here to view the entire set.](#)

Display Format:

[Change Format](#)

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

## Hit List

---

[First Hit](#)
[Clear](#)
[Generate Collection](#)
[Print](#)
[Fwd Refs](#)
[Bkwd Refs](#)
[Generate OACS](#)

**Search Results - Record(s) 1 through 1 of 1 returned.**

---

1. Document ID: US 20040032257 A1

**Using default format because multiple data bases are involved.**

L36: Entry 1 of 1

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#)

[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Term	Documents
OIL	1854487
OILS	366664
LIPID	105005
LIPIDS	66636
HYDROGENEOUS	85
HYDROGENOU	0
CONNATE	2253
CONNATES	8
FLUID	1851953
FLUIDS	406979
PORTION	5997279

(L34 AND (((OIL OR LIPID OR (HYDROGENEOUS WITH  
CONNATE WITH FLUID)) WITH (FRACTION\$4 OR PORTION OR  
PART\$2 OR PARTIAL\$2 OR CONTENT OT AMOUNT\$3)) WITH  
(MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH  
(DIELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

1

There are more results than shown above. Click here to view the entire set.

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

# Hit List

---

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

**Search Results - Record(s) 1 through 1 of 1 returned.**

---

1. Document ID: US 20040032257 A1

**Using default format because multiple data bases are involved.**

L40: Entry 1 of 1

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
OIL	1854487
OILS	366664
LIPID	105005
LIPIDS	66636
HYDROGENEOUS	85
HYDROGENOU	0
CONNATE	2253
CONNATES	8
FLUID	1851953
FLUIDS	406979
PORTION	5997279

(L27 AND (((OIL OR LIPID OR (HYDROGENEOUS WITH  
CONNATE WITH FLUID)) WITH (FRACTION\$4 OR PORTION OR  
PART\$2 OR PARTIAL\$2 OR CONTENT OT AMOUNT\$3)) WITH  
(MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH  
(DIELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

1

There are more results than shown above. [Click here to view the entire set.](#)

Display Format:



[Change Format](#)

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

## Hit List

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20040032257 A1

Using default format because multiple data bases are involved.

L41: Entry 1 of 2

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Derivatives](#) [Attachments](#) [Claims](#) [TOC](#) [Create TOC](#)

2. Document ID: GB 2409728 B, US 20040032257 A1, CA 2435945 A1, GB 2395015 A, GB 2395015 B, GB 2409726 A, GB 2409727 A, GB 2409728 A, GB 2409729 A, GB 2409726 B, GB 2409727 B

L41: Entry 2 of 2

File: DWPI

Jan 4, 2006

DERWENT-ACC-NO: 2004-179991

DERWENT-WEEK: 200604

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Evaluation of formation fluids of gas-bearing formation involves determining oil volume fraction from nuclear magnetic resonance and dielectric measurements

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Derivatives](#) [Attachments](#) [Claims](#) [TOC](#) [Create TOC](#)

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term

Documents

OIL	1854487
OILS	366664
LIPID	105005
LIPIDS	66636
HYDROGENEOUS	85
HYDROGENEOU	0
CONNATE	2253
CONNATES	8
FLUID	1851953
FLUIDS	406979
(L8 AND (((OIL OR LIPID OR (HYDROGENEOUS WITH CONNATE WITH FLUID)) WITH (FRACTION\$4 OR PORTION OR PART\$2 OR PARTIAL\$2 OR CONTENT OT AMOUNT\$3)) WITH (MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH (DIELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

There are more results than shown above. Click here to view the entire set.

**Display Format:**

[Previous Page](#)    [Next Page](#)    [Go to Doc#](#)

# Hit List

---

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

**Search Results - Record(s) 1 through 2 of 2 returned.**

---

1. Document ID: US 20040032257 A1

**Using default format because multiple data bases are involved.**

L49: Entry 1 of 2

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [Inventor](#) [Drawings](#)

2. Document ID: WO 2005040739 A2

L49: Entry 2 of 2

File: DWPI

May 6, 2005

DERWENT-ACC-NO: 2005-385416

DERWENT-WEEK: 200539

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Spectral information analysis method in threat detection system, involves using spectral data arranged according to dimension e.g. time, as input channels to signal separation process

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [Inventor](#) [Drawings](#)

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
BULK	431318

BULKS	1825
TOTAL	2168315
TOTALS	21411
OVERALL	1199527
OVERALLS	1360
OVER-ALL	40355
OVER-ALLS	37
"OVER ALL"	0
DENSITY	1457656
(L48 AND (((BULK OR TOTAL OR OVERALL OR OVER-ALL OR "OVER ALL") WITH (DENSITY)) WITH (MRI OR NMR OR (MAGNETIC ADJ RESONAN\$2)) WITH (DIELECTRIC\$4 OR DI-ELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

There are more results than shown above. [Click here to view the entire set.](#)

Display Format:

[Previous Page](#)    [Next Page](#)    [Go to Doc#](#)

[First Hit](#)      [Previous Doc](#)      [Next Doc](#)      [Go to Doc#](#)  
**End of Result Set**

[Generate Collection](#) [Print](#)

L49: Entry 2 of 2

File: DWPI

May 6, 2005

DERWENT-ACC-NO: 2005-385416

DERWENT-WEEK: 200539

COPYRIGHT 2006 DERWENT INFORMATION LTD

**TITLE:** Spectral information analysis method in threat detection system, involves using spectral data arranged according to dimension e.g. time, as input channels to signal separation process

**Basic Abstract Text (7):**

USE - For analysis of spectral data e.g. nuclear magnetic resonance spectroscopic (NMR) data e.g. C-NMR data, mass spectral, infrared, magnetic resonance spectroscopy (MRS), ultraviolet-visible, fluorescence or phosphorescence data related to atomic and molecular energy level, molecular geometries, chemical bonds/composition/structure, interactions of molecules, density, pressure, temperature, magnetic field and velocity obtained using astronomical absorbance, atomic absorbance, luminescence, ultraviolet-visible molecular absorbance, infrared (IR), near-IR, surface plasmon resonance, attenuated total reflectance, electron paramagnetic, electron, laser-induced breakdown, Auger electron, X-ray photoelectron, magnetic resonance imaging and spectroscopy, ultrasonic, dielectric, microwave, Fourier transform, multiplex or frequency-modulated, gamma-ray, x-ray and laser e.g. absorption, fluorescence, Raman and surface-enhanced Raman spectroscopy, mass spectrometry, refractometry, interferometry, scattering, inductively coupled plasma, atomic force microscopy, electron paramagnetic spectroscopy, electron spectroscopy scanning tunneling microscopy, microwave evanescent wave microscopy, near-field scanning optical microscopy, atomic fluorescence, time-of-flight mass spectrometry, secondary ion mass spectrometry, ion mobility spectrometry, resonance-enhanced multi-photon ionization, photon, electron, ion, field and scanning probe microscopy for laboratory research and investigations, microscopic imaging, infrared, near-infrared, visible absorption, Raman and fluorescence spectroscopy and imaging, satellite imaging, quality control, industrial process monitoring, combinatorial chemistry, genomics, biological imaging, pathology, drug discovery, pharmaceutical formulation, testing, counterfeit detection, tumor detection, satellite imaging and detection of defects in industrial process, threat detection system e.g. luggage detector in luggage, truck and freight scanners and passageway detector for identifying explosive, nuclear, biological or chemical compounds in airport, biological cell or molecule detection and biomedical tissue detection.

[Previous Doc](#)      [Next Doc](#)      [Go to Doc#](#)

## Hit List

---

First Hit	<a href="#">Clear</a>	<a href="#">Generate Collection</a>	<a href="#">Print</a>	<a href="#">Fwd Refs</a>	<a href="#">Bkwd Refs</a>
<a href="#">Generate OACS</a>					

**Search Results - Record(s) 1 through 1 of 1 returned.**

---

1. Document ID: US 20040032257 A1

**Using default format because multiple data bases are involved.**

L52: Entry 1 of 1

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">TOC</a>	<a href="#">Create TOC</a>
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------	---------------------------	-----------------------------	------------------------	---------------------	----------------------------

Clear	<a href="#">Generate Collection</a>	<a href="#">Print</a>	<a href="#">Fwd Refs</a>	<a href="#">Bkwd Refs</a>	<a href="#">Generate OACS</a>
-------	-------------------------------------	-----------------------	--------------------------	---------------------------	-------------------------------

Term	Documents
TRUE	815700
TRUEs	425
ACTUAL	1221998
ACTUALS	243
REAL	541845
REALS	428
GENUINE	17778
GENUINES	2
HEAVY	1009834
HEAVIES	1759
HEAVYS	11

(L51 AND (((TRUE OR ACTUAL OR REAL OR GENUINE)  
WITH (HEAVY) WITH (OIL OR LIPID OR (HYDROGENEOUS  
WITH CONNATE WITH FLUID))) WITH (MRI OR NMR OR  
(MAGNETIC ADJ RESONAN\$2)) WITH (DIELECTRIC\$4 OR  
DI-  
ELECTRIC\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

1

There are more results than shown above. Click here to view the entire set.

**Display Format:**

[Previous Page](#)    [Next Page](#)    [Go to Doc#](#)

## WEST Search History

DATE: Tuesday, February 28, 2006

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Updated Search for spec-2</u>	<u>Hit Count</u>
			<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L11		L10 and (((gas or gaseous or vapor or fume or liquid or fluid or oil) with (fraction\$4 or portion or part or partly or amount)) with (((bulk or total or overall or over-all or "over all") with (density)) with (nmr or MRI or (magnetic adj resonan\$2))))	8
<input type="checkbox"/>	L10		L9 and ((nmr or MRI or (magnetic adj resonan\$2)) with (gas or gaseous or vapor or fume or liquid or fluid or oil))	33
<input type="checkbox"/>	L9		L8 and (((bulk or total or overall or over-all or "over all") with (density)) with (nmr or MRI or (magnetic adj resonan\$2)))	71
<input type="checkbox"/>	L8		L7 and ((gas or gaseous or vapor or fume or liquid or fluid or oil) with (fraction\$4 or portion or part or partly or amount))	2575
<input type="checkbox"/>	L7		L6 and (fraction\$4 or portion or part or partly or amount)	4864
<input type="checkbox"/>	L6		L5 and ((bulk or total or overall or over-all or "over all") with (density))	4883
<input type="checkbox"/>	L5		L4 and (bulk or total or overall or over-all or "over all")	42064
<input type="checkbox"/>	L4		L3 and (density)	48963
<input type="checkbox"/>	L3		L2 and (nmr or MRI or (magnetic adj resonan\$2))	169079
<input type="checkbox"/>	L2		(gas or gaseous or vapor or fume or liquid or fluid or oil)	7345479
<input type="checkbox"/>	L1		6025327.pn. or 6323319.pn. or 6780841.pn.	6

END OF SEARCH HISTORY

## Hit List

[First Hit](#) [Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)  
[Generate OACS](#)

Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20040032257 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 8

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040032257

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040032257 A1

TITLE: Combining NMR, density, and dielectric measurements for determining downhole reservoir fluid volumes

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Freedman, Robert	Houston	TX	US

US-CL-CURRENT: 324/303

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

2. Document ID: US 6895107 B2

L11: Entry 2 of 8

File: USPT

May 17, 2005

US-PAT-NO: 6895107

DOCUMENT-IDENTIFIER: US 6895107 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Method for segmentation and volume calculation of white matter, gray matter, and cerebral spinal fluid using magnetic resonance images of the human brain

DATE-ISSUED: May 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Park; Jong-Won	Taejon, 301-826			KR
Sung; Yun-Chang	Kyungbuk			KR
Song; Chang-Jun	Daejon			KR
Noh; Seung-Moo	Daejon			KR

US-CL-CURRENT: 382/133; 435/1.1, 702/23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draws
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-------

3. Document ID: US 6285901 B1

L11: Entry 3 of 8

File: USPT

Sep 4, 2001

US-PAT-NO: 6285901

DOCUMENT-IDENTIFIER: US 6285901 B1

TITLE: Quantitative magnetic resonance method and apparatus for bone analysis

DATE-ISSUED: September 4, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taicher; Gersh Zvi	Houston	TX		
Reiderman; Arcady	Houston	TX		

US-CL-CURRENT: 600/410; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draws
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-------

4. Document ID: US 6268727 B1

L11: Entry 4 of 8

File: USPT

Jul 31, 2001

US-PAT-NO: 6268727

DOCUMENT-IDENTIFIER: US 6268727 B1

TITLE: Measurement of flow fractions flow velocities and flow rates of a multiphase fluid using ESR sensing

DATE-ISSUED: July 31, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
King; J. Derwin	San Antonio	TX		
Ni; Qingwen	San Antonio	TX		
De Los Santos; Armando	San Antonio	TX		

US-CL-CURRENT: 324/306; 324/300, 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draws
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-------

5. Document ID: US 6046587 A

L11: Entry 5 of 8

File: USPT

Apr 4, 2000

US-PAT-NO: 6046587  
DOCUMENT-IDENTIFIER: US 6046587 A

TITLE: Measurement of flow fractions, flow velocities, and flow rates of a multiphase fluid using NMR sensing

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
King; J. Derwin	San Antonio	TX		
Ni; Qingwen	San Antonio	TX		
De Los Santos; Armando	San Antonio	TX		

US-CL-CURRENT: 324/306; 324/307, 324/309

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Claims](#) [KIDC](#) [Draw. D.](#)

6. Document ID: EP 114391 A1

L11: Entry 6 of 8

File: EPAB

Aug 1, 1984

PUB-NO: EP000114391A1

DOCUMENT-IDENTIFIER: EP 114391 A1

TITLE: Flexible propylene polymer.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Claims](#) [KIDC](#) [Draw. D.](#)

7. Document ID: WO 9859220 A2, AU 9881744 A, NO 9906446 A, EP 991919 A2, US 6046587 A, CN 1268218 A, CN 1273632 A, US 6268727 B1, AU 735880 B, BR 9810756 A

L11: Entry 7 of 8

File: DWPI

Dec 30, 1998

DERWENT-ACC-NO: 1999-081394

DERWENT-WEEK: 199907

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Multiphase fluid metering instrument. - Uses processor to determine flows from nuclear magnetic and electronic spin resonance sensors.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Claims](#) [KIDC](#) [Draw. D.](#)

8. Document ID: EP 114391 A, DE 3377914 G, EP 114391 B, JP 59122506 A

L11: Entry 8 of 8

File: DWPI

Aug 1, 1984

DERWENT-ACC-NO: 1984-190322

DERWENT-WEEK: 198431

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Flexible polypropylene obtd. in particle form by gas polymerisation - has excellent physical, mechanical and processing properties for films and mouldings

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Claims](#) [List](#) [Review](#)

[Clear](#)

[Generate Collection](#)

[Print](#)

[Fwd Refs](#)

[Bkwd Refs](#)

[Generate OACS](#)

Term	Documents
GAS	2763137
GASES	664737
GASEOUS	434312
GASEOU	1631
VAPOR	639876
VAPOUR	178521
VAPOURS	23870
VAPORS	120443
FUME	24251
FUMES	38945
(L10 AND (((GAS OR GASEOUS OR VAPOR OR FUME OR LIQUID OR FLUID OR OIL) WITH (FRACTION\$4 OR PORTION OR PART OR PARTLY OR AMOUNT)) WITH (((BULK OR TOTAL OR OVERALL OR OVER-ALL OR "OVER ALL") WITH (DENSITY)) WITH (NMR OR MRI OR (MAGNETIC ADJ RESONAN\$2)))) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

There are more results than shown above. [Click here to view the entire set.](#)

Display Format:

[-](#)

[Change Format](#)

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)